Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/689,619

Examiner

KOBATA ET AL. Art Unit

Gwendolyn Blackwell

1775

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected Ν

Interference

**Appeal** 

0 Objected

|               |          |                 |              |              |              |              | J                                      |              | <u> </u>     | <u></u>  |       |          |          |          |  |          |          |
|---------------|----------|-----------------|--------------|--------------|--------------|--------------|--|--------------|--------------|--|-------|----------|----------|----------|--|----------|----------|
| <u></u>       |          |                 |              |              |              |              |  |              |              | 1  |       |          | _        |          |  |          |          |
| Cla           | Da       |                 |              |              |              | ate          |  |              |              |  | Claim |          |          |          |  |          |          |
| Final         | Original | 3/3/07          | :            |              |              |              |  |              |              |  |       | Final    | Original | 3/3/07   |  |          |          |
|               | 1        | <del> </del>    |              |              | Г            | Г            |  | Г            | Т            | $\Box$   | 1     | 17       | 51       | =        |  |          |          |
|               |          |                 |              |              |              |              |  |              |              | П  |       | 18       | 52       | 1        |  |          | Г        |
|               | 3        |                 |              |              |              |              |  |              |              |  | ]     | 19       | 53       | П        |  |          |          |
|               | 4        |                 |              |              |              |              |  |              |              |  | ]     | 22       | 54       | $\prod$  | L  |          |          |
|               | 5        |                 |              |              | L            | L            |  | L            | <u></u>      |  |       | 23       | 55       | Ц        |  |          | L        |
|               | 6        |                 |              |              | _            | _            | _                                      |              |              | ŀ  |       | 24       | 56       | Ц        | ļ  | <u>L</u> | <u> </u> |
|               | 7        | _               | <u> </u>     |              | _            |              |  | _            | _            | <u> </u>   |       | 25       | 57       | Ц        | <u> </u>   | <u> </u> | _        |
| <u> </u>      | 8        | <u> </u>        | <u> </u>     | ╙            | <del> </del> |              |  | ۱÷           | <u> </u>     | _  | ł     | 26       | 58       | H        | <del> </del>                                     | <u> </u> | <u> </u> |
| -             | 9        | <u> </u>        | <u> </u>     |              |              | _            | ⊢                                      | ⊢            |              | -  | {     | 27       | 59       | 1        | ┢  | ⊢        | ⊢        |
|               | 10       |                 | -            | _            | -            | -            | -                                      | H            |              |  | {     | 28       | 60<br>61 | 2        | ├  | ├-       | -        |
| -             | 12       | ┢               | $\vdash$     | ⊢            | ┢            | ├            | ⊢                                      | ⊢            |              | -  | ł     |          | 62       | H        | ┢  | ⊢        | ⊢        |
| $\vdash$      | 13       | ⊢               | ┢            |              |              | -            | ├─                                     | -            | <del> </del> | ⊢  | 1     |          | 63       | ⊢        | ├  | ⊢        | ├        |
| -             | 14       | $\vdash$        | ┝            | $\vdash$     | ┢            | ⊢            | -                                      |              | -            |  | 1     |          | 64       | ┢        | ┢  | ⊢        | ⊢        |
| $\vdash$      | 15       | ⊢               | $\vdash$     | $\vdash$     | ╁            | -            | -                                      | ├            | ├一           | $\vdash$   | 1     |          | 65       | H        | ┢  | -        | ├        |
|               | 16       | 一               | _            | -            | ┢┈╴          | -            | $\vdash$                               | $\vdash$     | $\vdash$     | $\vdash$   | 1     |          | 66       | $\vdash$ | 一  | $\vdash$ | ┢        |
|               | 17       |                 |              |              |              | 1            |  |              |              | <del>                                     </del> | 1     |          | 67       |          | T  | Г        | Т        |
|               | 18       | _               |              |              |              |              |  |              |              |  | 1     |          | 68       |          |  |          | Г        |
|               | 19       |                 |              |              |              |              |  |              |              |  |       |          | 69       |          |  |          |          |
|               | 20       | L               |              |              |              |              |  |              |              |  | ]     |          | 70       | L        |  |          | L        |
|               | 21       |                 | _            | <u> </u>     |              |              | Ļ                                      |              |              |  |       |          | 71       |          |  | L        | L        |
| L             | 22       | _               |              | _            | _            |              | Ŀ                                      | <u> </u>     | <u> </u>     | _  |       |          | 72       | _        | <u> </u>   | <u> </u> | ļ        |
|               | 23       |                 |              | ļ            | <u> </u>     |              | <u> </u>                               | ⊢            | ⊢            | <u> </u>   |       | <u> </u> | 73       | <u> </u> | $\vdash$   | _        | <u> </u> |
| -             | 24<br>25 | <del> </del>    | <del> </del> | -            | -            |              |  | ├            | -            | ├—   |       |          | 74<br>75 | <u> </u> | ⊢  | ⊢        | $\vdash$ |
| -             | 26       | -               |              | -            | ╁            |              |  |              |              |  |       |          | 76       | $\vdash$ |  |          | ⊢        |
|               | 27       | $\vdash$        | $\vdash$     |              | H            | $\vdash$     | H                                      | $\vdash$     | ┢            | -  | 1     |          | 77       | _        | $\vdash$   |          | ┢        |
|               | 28       | ┢               | $\vdash$     | H            |              | -            |  | <del> </del> | -            | _  | 1     |          | 78       |          |  | П        | T        |
| 1             | 29       | Z               |              | Г            |              |              |  |              |              |  | 1     |          | 79       |          | 1  |          |          |
|               | 30       |                 |              |              |              |              |  |              |              |  | 1     |          | 80       |          |  |          |          |
|               | 31       |                 |              |              |              |              |  |              |              |  |       |          | 81       |          |  |          |          |
| 2             | 32       | =               | ┕            | <u> </u>     | _            | L            | _                                      | L            |              |  |       |          | 82       |          | _  | _        | L        |
| 3             | 33       | 1               |              | _            | _            | L            | _                                      |              | _            | <u> </u>   |       |          | 83       |          |  | _        | <u> </u> |
| 4             | 34       | <del>  </del> _ |              | <u> </u>     | <u> </u>     | <u> </u>     | <u> </u>                               | _            | <u> </u>     | <u> </u>   |       |          | 84       | <u> </u> | -  | -        | _        |
| 5             | 35       | ₩_              | <del> </del> | <u> </u>     | <u> </u>     | <b> </b> -   | ļ                                      |              | <u> </u>     | ├  |       |          | 85       | <u> </u> | <b>—</b>   | ⊢        | L        |
| <u>6</u><br>7 | 36<br>37 | ╫╴              | ├            | <del> </del> | ├            | ⊬            | ⊢                                      | _            | ┢            | ┝  |       |          | 86<br>87 | ├        | ├  | -        | -        |
| 8             | 38       | ╂╴              | <del> </del> |              |              | -            | -                                      |              | ⊢            | ┝  |       | -        | 88       | ⊢        | ⊢  | $\vdash$ | ⊢        |
| 9             | 39       | ₩               | ⊢            | $\vdash$     | $\vdash$     | H            | $\vdash$                               |              | ⊢            | ⊢  |       | _        | 89       | ├        | $\vdash$   | -        | -        |
| 10            | 40       | ╫               | ┢            | $\vdash$     | H            |              |  |              | ┢            |  |       |          | 90       | ┢        | $\vdash$   |          | -        |
| 11            | 41       | ╫╴              | <u> </u>     | $\vdash$     |              |              |  |              | H            | $\vdash$   |       |          | 91       | $\vdash$ | $\vdash$   |          | _        |
| 12            | 42       | H               | $\vdash$     | ┢            | Г            |              |  |              | -            |  |       |          | 92       | -        |  |          |          |
| 13            | 43       |                 |              |              |              |              |  |              |              |  |       |          | 93       |          |  |          |          |
| 14            | 44       |                 |              |              |              |              |  |              |              |  |       |          | 94       |          |  |          |          |
| 20            | 45       | Щ               |              | L            |              |              |  |              |              | Ĺ  |       |          | 95       |          | Ш  | Ш        |          |
| 21            | 46       | ₩.              | <u> </u>     | <u> </u>     | <u> </u>     | <u> </u>     | $\vdash$                               | <u> </u>     | <u> </u>     | <u> </u>   |       |          | 96       | _        | <u> </u>   | $\vdash$ | _        |
| 15<br>16      | 47       | <u>→</u>        | $\vdash$     | -            | <del> </del> | <u> </u>     |  | _            | $\vdash$     | <u> </u>   |       |          | 97<br>98 | L        |  | <u> </u> | -        |
| 10            | 49       | F               | $\vdash$     | H            | $\vdash$     | $\vdash$     | H                                      |              | -            | -  |       |          | 99       | _        | <del>                                     </del> | $\vdash$ |          |
| <b>—</b>      | 50       | <del> </del>    |              | -            | -            | <del> </del> |  | -            | <u> </u>     | -  |       |          | 100      | $\vdash$ |  | -        | $\vdash$ |
|               |          | ٠               |              |              |              | ٠            | ــــــــــــــــــــــــــــــــــــــ | <b>-</b>     |              |  |       |          |          |          |  |          |          |

| Cla        | Claim          |              |  | Date   |              |  |  |  |  |                |  |  |  |
|------------|----------------|--------------|--|--|--------------|--|--|--|--|----------------|--|--|--|
|            |                |              |  |  |              | I  | Π  |  |  |                |  |  |  |
| Final      | Original       | 3/3/07       |  |  |              |  |  |  |  |                |  |  |  |
| 17         | 51             | =            |  |  |              |  |  |  |  |                |  |  |  |
| 18         | 52<br>53       | 1            |  |  |              |  | Г  |  |  |                |  |  |  |
| 19         | 53             | T            |  |  |              | $\vdash$   |  | <b>—</b>   | -  |                |  |  |  |
| 22         | 54             | Н            | $\vdash$   |  | $\vdash$     | $\vdash$   | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | Н              |  |  |  |
| 23         | 55             | H            |  | <del>                                     </del> | ┢            | $\vdash$   | $\vdash$   | $\vdash$   | Т  |                |  |  |  |
| 23<br>24   | 56             | H            | H  |  | -            | -  | $\vdash$   | $\vdash$   | ┰  | -              |  |  |  |
| 25         | 57             | Н            | -  | -  | -            | _  | $\vdash$   | ┢  | H  |                |  |  |  |
| 26         | 58             | ╁            | <del>                                     </del> | $\vdash$   | $\vdash$     |  | ┢  | ╌  | ╁  | <u> </u>       |  |  |  |
| 27         | 59             | 4            |  | -  | -            | -  | -  | -  |  |                |  |  |  |
| 28         | 60             | 2            | $\vdash$   | ┢  | ⊢            |  |  |  | -  |                |  |  |  |
| 20         | 61             | -            | $\vdash$   | ┢  |              | -  | -  | ⊢  | ⊢  | -              |  |  |  |
|            | 62             | $\vdash$     | <u> </u>   | -  | ⊢            | <del>                                     </del> | $\vdash$   |  | -  | -              |  |  |  |
| -          | 62             | -            | -  | -  | ├            |  | -  | <del> </del>                                     | ├  | <del> </del>   |  |  |  |
| -          | 63             | $\vdash$     | $\vdash$   | ⊢  | $\vdash$     | -  | -  | -  | -  | ├              |  |  |  |
| -          | 64             | ⊢            | ├  | -  |              |  |  | -  | -  | <del> </del>   |  |  |  |
| -          | 65             | $\vdash$     | ├  |  |              | -  |  | -  | <u> </u>   | -              |  |  |  |
|            | 66             | ⊢            | <u> </u>   | ⊢  | ⊢            | ┡  | <u> </u>   | ⊢  | ⊢  | <b>!</b>       |  |  |  |
| <u> </u>   | 67             |              | L  | ⊢  | <u> </u>     |  |  | ├  | <del> </del> —                                   | <u> </u>       |  |  |  |
| ļ          | 68             |              | ┡  | L  | _            | L  | <u> </u>   | <u> </u>   | <u> </u>   | _              |  |  |  |
| <u> </u>   | 69             |              | L  | ⊢  | <u> </u>     | <u> </u>   | _  | <u> </u>   |  | <u> </u>       |  |  |  |
| <u> </u>   | 70             | _            | <u> </u>   | ļ  | ļ            | _  |  | _  | <u> </u>   | <u> </u>       |  |  |  |
| <b>├</b>   | 71             | <u> </u>     | L  | L  | <del> </del> | <del> </del>                                     |  | <u> </u>   | ⊢  | <u> </u>       |  |  |  |
| ⊢          | 72             | <u> </u>     | <u> </u>   | <del> </del>                                     |              | -  |  | -  | ├  | -              |  |  |  |
| ⊢          | 72<br>73<br>74 | _            | <u> </u>   | ├-   | <u> </u>     | <u> </u>   |  |  | -  | <del> </del>   |  |  |  |
|            | 74             | <u> </u>     | ⊢  | <u> </u>   | ⊢            | <u> </u>   |  | <del> </del>                                     |  | ├              |  |  |  |
| <b>——</b>  | 75<br>76       | _            | H  | H  | <u> </u>     | ⊢  | <u> </u>   | <u> </u>   | <del> </del>                                     | ⊢              |  |  |  |
| <b>—</b>   | 76             | <u> </u>     | -  |  |              | ├  | ⊢  | <u> </u>   | ⊢  | ⊢              |  |  |  |
|            | 77             | <u> </u>     | <u> </u>   | _  |              |  |  |  | _  | <u> </u>       |  |  |  |
| <u> </u>   | 78<br>79       | <u> </u>     | -  | -  | -            | -  | -  |  | <u> </u>   | <del> </del>   |  |  |  |
| -          | 79             | ⊢            |  | -  | ├            | <del> </del>                                     | ├  |  | <u> </u>   |                |  |  |  |
| <b>├</b>   | 80             | <u> </u>     |  |  | <u> </u>     |  | <u> </u>   |  | <u> </u>   | <del>  -</del> |  |  |  |
| <b>├</b> ─ | 81             | -            |  | _  | $\vdash$     | _  | _  | <u> </u>   | <u> </u>   | -              |  |  |  |
| <b>-</b>   | 82             |              |  | <u> </u>   | <u> </u>     | ⊢  | <u> </u>   | <u> </u>   | H  | <u> </u>       |  |  |  |
| <u> </u>   | 83             | _            |  | -  |              | ├  | <u> </u>   | <u> </u>   | <u> </u>   | $\vdash$       |  |  |  |
| $\vdash$   | 84             | -            | <u> </u>   | ├  |              | ├  | -  | <u> </u>   |  |                |  |  |  |
|            | 85             | $\vdash$     | ⊢  | ⊢  | $\vdash$     | ⊢  | $\vdash$   | ⊢  | $\vdash$   | <u> </u>       |  |  |  |
| $\vdash$   | 86             | $\vdash$     | ├  | <del> </del>                                     | ļ            | -  | ļ  | <u> </u>   | <u> </u>   | ┡              |  |  |  |
| <u> </u>   | 87             | $\vdash$     | $\vdash$   | ├  | $\vdash$     | $\vdash$   | <u> </u>   |  | -  | <u> </u>       |  |  |  |
| $\vdash$   | 88             | <del> </del> | $\vdash$   |  | -            |  | <u> </u>   | <u> </u>   | -  | -              |  |  |  |
| <u></u>    | 89<br>90       | $\vdash$     | <del> </del>                                     | <b> </b>   | -            |  | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>       |  |  |  |
| <u> </u>   |                | <del> </del> |  |  | <u> </u>     | -  | <u> </u>   | <u> </u>   | <del> </del>                                     | $\vdash$       |  |  |  |
|            | 91             |              | -  | -  | ļ            | <u> </u>   | <u> </u>   | <u> </u>   | -  | <u> </u>       |  |  |  |
|            | 92             |              |  |  |              |  | $\vdash$   | <u> </u>   | $\vdash$   |                |  |  |  |
|            | 93             | _            | <del> </del>                                     |  | <u> </u>     | <u> </u>   | <u> </u>   |  | $\vdash$   |                |  |  |  |
|            | 94             | $\vdash$     | <u> </u>   | -  | <u> </u>     | $\vdash$   | <u> </u>   | <u> </u>   | <u> </u>   | _              |  |  |  |
| $\vdash$   | 95             | Н            | $\vdash$   | $\vdash$   | <u> </u>     | $\vdash$   | H  | <u> </u>   | $\vdash$   | <u> </u>       |  |  |  |
| <u> </u>   | 96<br>97       | $\vdash$     | $\vdash$   | ⊢  | <u> </u>     | $\vdash$   | $\vdash$   | <u> </u>   | $\vdash$   | _              |  |  |  |
|            | 98             |              | -  | -  | <del> </del> | -  |  | <del> </del>                                     | $\vdash$   | <u> </u>       |  |  |  |
| $\vdash$   | 99             | $\vdash$     |  | ┝  | <u> </u>     | <u> </u>   |  | <del> </del>                                     |  |                |  |  |  |
|            | 100            | Н            |  | <del> </del>                                     |              | <del> </del>                                     | -  | <del> </del>                                     | $\vdash$   | H              |  |  |  |
| 1          | ן וטט          |              | 1  | 1  | ì            |  |  | 1  | 1  |                |  |  |  |

| Claim |            | Date     |  |                    |              |              |              |              |              |                 |  |  |
|-------|------------|----------|--|--------------------|--------------|--------------|--------------|--------------|--------------|-----------------|--|--|
|       |            | Г        | Γ  |                    | Π            | Γ            |              |              |              |                 |  |  |
| Final | Original   |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 101        |          | Г  |                    | <u> </u>     |              |              |              | П            | П               |  |  |
|       | 102        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 103        |          |  |                    |              |              | П            |              | П            | П               |  |  |
|       | 104        | П        |  |                    |              |              |              |              | Г            |                 |  |  |
|       | 105        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 106        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 107        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 108<br>109 |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 109        |          |  | $oxedsymbol{oxed}$ |              |              | $oxed{oxed}$ |              |              |                 |  |  |
|       | 110        |          | <u> </u>   | Ш                  |              | L            | <u></u>      |              | $oxed{oxed}$ | $\bigsqcup$     |  |  |
|       | 111        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 112        |          | $\Box$   |                    | $\Box$       | $\Box$       |              | 匚            | $\Box$       |                 |  |  |
|       | 113        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 114        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 114<br>115 | $\Box$   |  |                    |              |              |              |              | L            |                 |  |  |
|       | 116<br>117 |          |  |                    |              |              |              |              |              | Ш               |  |  |
|       | 117        | <u> </u> | L  |                    | سَا          | L            | _            |              |              |                 |  |  |
|       | 118        |          |  |                    |              |              |              |              |              |                 |  |  |
|       | 119        |          | L_   | L_                 | L            |              | <u> </u>     | <u> </u>     |              | Ш               |  |  |
|       | 120        |          |  |                    |              |              | _            | L            |              | Ш               |  |  |
|       | 121        |          |  |                    | L            |              |              | L.           |              | Ш               |  |  |
|       | 122<br>123 |          | L  |                    | L            |              |              |              |              |                 |  |  |
|       | 123        | <u> </u> | <u> </u>   | <u> </u>           | <u>L</u>     |              | _            |              | L            |                 |  |  |
|       | 124        |          | _  | L                  |              | L            | <u> </u>     |              | _            | Ш               |  |  |
|       | 125<br>126 | <u> </u> | <u> </u>   |                    | L_           |              | <u> </u>     |              | _            | Ш               |  |  |
|       | 126        | <u> </u> | <u> </u>   | _                  |              |              | <u> </u>     | L            | L            | Щ               |  |  |
|       | 127        | <u> </u> |  | _                  |              | _            | <u> </u>     | _            | <u> </u>     | Щ               |  |  |
|       | 128<br>129 |          | ļ  | _                  |              |              | _            | <u> </u>     | ļ            | Щ               |  |  |
|       | 129        | ļ        |  | <u> </u>           |              |              |              | <u> </u>     | _            | Ш               |  |  |
|       | 130        | <u> </u> | _  | ļ                  | _            | _            |              | _            | <u> </u>     | Щ               |  |  |
|       | 131        | <u> </u> | _  | ├                  | <u> </u>     | ├_           | <u> </u>     | <u> </u>     | <u> </u>     | Ш               |  |  |
|       | 132        | <u> </u> | <u> </u>   | ldash              | _            | <u> </u>     | _            | ļ.           | _            | Щ               |  |  |
|       | 133        | ·        | _  | $\vdash$           | <u> </u>     | <u> </u>     | -            | <u> </u>     | <u> </u>     | Н               |  |  |
|       | 134        | <u> </u> |  |                    | <u> </u>     |              | -            | ├-           |              | $\vdash$        |  |  |
|       | 135        | <u> </u> | ┝  | ├                  | <del> </del> | <del> </del> |              | $\vdash$     | $\vdash$     | $\vdash\vdash$  |  |  |
|       | 136<br>137 | $\vdash$ | -  | <u> </u>           | $\vdash$     | $\vdash$     | -            | ⊢            | <del> </del> | Н               |  |  |
|       | 138        | ļ        | <del> </del>                                     | H                  | <b> </b>     | ļ            | <b> </b>     | <del> </del> |              |                 |  |  |
|       | 138        | <u> </u> | -  |                    | <del> </del> | <u> </u>     | ⊢            | <del> </del> | <u> </u>     | $\vdash\vdash$  |  |  |
| -     | 140        | $\vdash$ | -  | -                  |              | <del> </del> | $\vdash$     | ├─           | ├            | $\vdash$        |  |  |
|       | 141        | ├        | -  | -                  | -            | <del> </del> | ├─           | <del> </del> | $\vdash$     | -               |  |  |
|       | 142        | ⊢⊣       |  | -                  | -            | -            | ├            | -            | -            | $\vdash$        |  |  |
|       | 143        |          |  | $\vdash$           | Н            | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$        |  |  |
|       | 144        | $\vdash$ | $\vdash$   | $\vdash$           | -            | <del> </del> | <del> </del> | $\vdash$     | -            | $\vdash\vdash$  |  |  |
|       | 145        |          | <b> </b> -                                       | $\vdash$           | $\vdash$     | $\vdash$     | <del> </del> | $\vdash$     | Н            | $\vdash \vdash$ |  |  |
|       | 146        |          |  | -                  |              |              | $\vdash$     |              |              | $\vdash\vdash$  |  |  |
|       | 147        | <b>-</b> | -  | -                  | -            | $\vdash$     | $\vdash$     | $\vdash$     | Н            | $\vdash \vdash$ |  |  |
|       | 148        | -        | <del>                                     </del> |                    |              | H            | H            |              | H            | $\vdash$        |  |  |
|       | 149        |          |  | -                  | Н            |              | _            | Н            | Т            | Н               |  |  |
|       | 150        |          | ·  | $\vdash$           |              |              |              |              |              | Н               |  |  |
|       |            |          |  |                    |              |              |              |              |              |                 |  |  |